Contents

Abstracting Services

This Journal is cited by the following Abstracting Services: BIOSEP Bulletin, BIOSIS, Cambridge Scientific Abstracts, CABS, Chemical Abstracts, Chemical Engineering Abstracts, Current Contents, Engineered Materials Abstracts, Fluid Abstracts, FSTA, INSPEC, Material Business Alerts, Metals Abstracts, Mixing and Separation Technology Abstracts, Pascal/CNRS, Physikalische Berichte, Science Abstracts, Science Citation Index, Theoretical Abstracts.

General

Mechanism of the solvent-mediated transformation of taltirelin polymorphs promoted by methanol S. Maruyama and H. Ooshima	1
Film wiping in the molecular evaporator J. Cvengroš, Š. Pollák, M. Micov and J. Lutišan	9
Evaluation of theoretical viscosity models for concentrated emulsions at low capillary numbers R. Pal	15
Pressure drop in fixed-bed adsorbers M.H. Chahbani and D. Tondeur	23
Kinematic viscosity prediction for aqueous solutions with various solutes G. Pereira, R. Moreira, M.J. Vázquez and F. Chenlo	35
Comparison of isothermal and non-isothermal pipeline gas flow models A.J. Osiadacz and M. Chaczykowski	41
Measurement of local and overall mass-transfer coefficients to a sphere in a quiescent liquid using a limiting current technique H.D. Doan, M.E. Fayed and O. Trass	53
Curvature of the vapour pressure curve K. Srinivasan	63
Liquid dispersion and gas holdup in packed bubble columns at atmospheric pressure P.Therning and A. Rasmuson	69
Isobaric vapor-liquid equilibria of water-pyridine and water-pyridine-calcium chloride mixtures F.A. Abu Al-Rub and R. Datta	83
Kinetics identification of salicylic acid precipitation through experiments in a batch stirred vessel and aT-mixer A.F. Blandin, D. Mangin, V. Nallet, J.P. Klein and J.M. Bossoutrot	9
Neural network simulation for non-MSMPR crystallization Z. Sha, M. Louhi-Kultanen and S. Palosaari	10
Co-extraction and selective stripping of copper (II) and molybdenum (VI) using LIX 622 A.M. Sastre and F.J. Alguacil	109
Improvement of continuous calibration based on temperature oscillation and application to biochemical reaction calorimetry	
L. Bou-Diab, B. Schenker, I. Marison, S. Ampuero and U. von Stockar	113

(contents continued on page I)

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request



This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: www.elsevier.nl/locate/contentsdirect



1385-80/7/20010101081-1-3-1-2

Contents

Abstracting Services

This Journal is cited by the following Abstracting Services: BIOSEP Bulletin, BIOSIS, Cambridge Scientific Abstracts, CABS, Chemical Abstracts, Chemical Engineering Abstracts, Current Contents, Engineered Materials Abstracts, Fluid Abstracts, FSTA, INSPEC, Material Business Alerts, Metals Abstracts, Mixing and Separation Technology Abstracts, Pascal/CNRS, Physikalische Berichte, Science Abstracts, Science Citation Index, Theoretical Abstracts.

General

Mechanism of the solvent-mediated transformation of taltirelin polymorphs promoted by methanol S. Maruyama and H. Ooshima	1
Film wiping in the molecular evaporator J. Cvengroš, Š. Pollák, M. Micov and J. Lutišan	9
Evaluation of theoretical viscosity models for concentrated emulsions at low capillary numbers R. Pal	15
Pressure drop in fixed-bed adsorbers M.H. Chahbani and D. Tondeur	23
Kinematic viscosity prediction for aqueous solutions with various solutes G. Pereira, R. Moreira, M.J. Vázquez and F. Chenlo	35
Comparison of isothermal and non-isothermal pipeline gas flow models A.J. Osiadacz and M. Chaczykowski	41
Measurement of local and overall mass-transfer coefficients to a sphere in a quiescent liquid using a limiting current technique H.D. Doan, M.E. Fayed and O. Trass	53
Curvature of the vapour pressure curve K. Srinivasan	63
Liquid dispersion and gas holdup in packed bubble columns at atmospheric pressure P.Therning and A. Rasmuson	69
Isobaric vapor-liquid equilibria of water-pyridine and water-pyridine-calcium chloride mixtures F.A. Abu Al-Rub and R. Datta	83
Kinetics identification of salicylic acid precipitation through experiments in a batch stirred vessel and aT-mixer A.F. Blandin, D. Mangin, V. Nallet, J.P. Klein and J.M. Bossoutrot	9
Neural network simulation for non-MSMPR crystallization Z. Sha, M. Louhi-Kultanen and S. Palosaari	10
Co-extraction and selective stripping of copper (II) and molybdenum (VI) using LIX 622 A.M. Sastre and F.J. Alguacil	109
Improvement of continuous calibration based on temperature oscillation and application to biochemical reaction calorimetry	
L. Bou-Diab, B. Schenker, I. Marison, S. Ampuero and U. von Stockar	113

(contents continued on page I)

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request



This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: www.elsevier.nl/locate/contentsdirect



1385-80/7/20010101081-1-3-1-2

(contents continued from outside back cover)

Environmental Chemical Engineering Kinetics of the recovery of Cd from highly concentrated aqueous solutions by non-dispersive solvent extraction	
I. Ortiz, F. San Román and B. Galán	129
Minimization of cost of recycling in chemical processes G. Parthasarathy	137
Novel technique to regenerate activated alumina bed saturated by fluoride ions H. Lounici, L. Adour, D. Belhocine, A. Elmidaoui, B. Bariou and N. Mameri	153
Factors affecting the current and the voltage efficiencies of the synthesis of quaternary ammonium hydroxides by electrolysis—electrodialysis TT. Wang and WC. Yang	161
Solid/solid separation by selective agglomeration with agglomerant recovery by thermal desorption A. Bensakhria, Ph. Sajet, G. Antonini and W. Auquier	171
A modified Langmuir model for the prediction of the effects of ionic strength on the equilibrium characteristics of protein adsorption onto ion exchange/affinity adsorbents Q. Lan, A.S. Bassi, JX. (Jesse) Zhu and A. Margaritis.	179
Sorption on natural solids for arsenic removal M.P. Elizalde-González, J. Mattusch, WD. Einicke and R. Wennrich	187
A model system for cocomposting hydrocarbon contaminated soil by using water activity and porosity as response variables	,
L. Aguilera-Vázquez, N.O. Soto-Cruz, G. Saucedo-Castañeda and M. Gutiérrez-Rojas	197
Enhancement of gas-liquid mass transfer by small reactive particles at realistically high mass transfer coefficients: absorption of sulfur dioxide into aqueous slurries of Ca(OH) ₂ and Mg(OH) ₂ particles	
M.V. Dagaonkar, A.A.C.M. Beenackers and V.G. Pangarkar	203
Chemical Reaction Engineering	
Solution to the homogeneous surface diffusion model for batch adsorption systems using orthogonal collocation G. McKay	213
A highly elevated mass transfer rate process for three-phase, liquid-continuous fluidized beds	210
CM. Chen and LP. Leu	223
Parametric study on the production of phosphoric acid by the dihydrate process S.I. Abu-Eishah and N.M. Abu-Jabal	231
Gamma ray tomography design for the measurement of hold-up profiles in two-phase bubble columns	
U. Parasu Veera	251
Computational modeling of pulverized coal combustion processes in tangentially fired furnaces J. Fan, L. Qian, Y. Ma, P. Sun and K. Cen	261
Kinetic study of the acetate-catalysed hydrolysis of phenyl acetate R. Carta and S. Dernini	271
Permeation of gases in industrial porous catalysts	
P. Čapek, V. Hejtmánek and O. Šolcová Kinetic comparison between subcritical and supercritical water oxidation of phenol	281
J.R. Portela, E. Nebot and E. Martínez de la Ossa	287
Nouvelles méthodes de mesure des distributions de temps de séjour d'une phase solide transportée G. Genin, J.L., Houzelot, A, Kotro and G. Martin	30
Short communications Influences of seed crystals on agglomeration phenomena and product purity of <i>m</i> -chloronitrobenzene crystals in batch crystallization K. Funakoshi, H. Takiyama and M. Matsuoka	307
Effect of cooling mode on product crystal size in seeded batch crystallization of potassium alum	301
N. Doki, N. Kubota, A. Sato and M. Yokota	313
Determination experimentale et interpretation des capacites d'absorption des liquides par les biotextiles a structure absorbante complexe — influence des gels de polymeres superabsorbants D. Aliouche, H. Ait-Amar and K. Lahfati	317
Wall effect in laminar flow of non-Newtonian fluid through a packed bed	
S. Basu	323
Liquid dispersion, gas holdup and frictional pressure drop in a packed bubble column at elevated pressures P. Therning and A. Rasmuson	33

Book reviews	227
Letter to the Editor	33/
Pospones to the letter of Dr. April	343
Response to the letter of Dr. Amiri	345
Author Index	2.47
Subject Index	341
Subject Index	349

